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# HAZARDS OF ELECTROMAGNETIC RADIATION TO ORDNANCE (HERO)



# HERO



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- HERO is the program concerned with prevention of accidental ignition of electrically initiated devices (EID's) in ammunition and explosives due to radio frequency (RF) electromagnetic fields.
- HERO order: NAVSEA OP 3565 Vol 2
- Four classifications pertinent to HERO



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## Classifications

- **HERO Safe** – Any Ordnance item that is proven by test or analysis to be sufficiently shielded, or otherwise so protected that all EID's contained by the item are immune to adverse effects.
- **HERO Susceptible** – Any Ordnance containing EID proven by test or analysis to be adversely affected by RF energy to the point that safety and/or reliability of the system is in jeopardy.
- **HERO Unsafe** – Any Ordnance item, whose inadvertent initiation or detonation causes an



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- **HERO Unreliable** – Any Ordnance items, whose performance is degraded due to exposure to the RF environment.



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## Symbols and Labels

- HERO Warning Symbols and Labels alert the radio and portable emitter systems operators of the potential HERO hazards.
- Low-power transceiver devices such as cell phones, active pagers, Computer Tablets, and some walkie-talkies automatically transmit RF energy without operator action.
- i.e. 15' closed / 25' open





# Questions